



## CVR - 2 GLOBESCAN CONVERTER

With GLOBESCAN attached to an aircraft band (118-136 MHz) scanner, worldwide reception of 4 - 22 MHz shortwave broadcasting stations is possible. No changes are necessary for your scanner — you may use squelch, memory channels, search and scan for shortwave reception.

With GLOBESCAN connected to your scanner, aircraft band reception will no longer be possible; it must be disconnected (even if unpowered) to revert to normal aircraft reception.

**ANTENNA** While it is possible for you to use your outside scanner antenna for shortwave reception, signal strengths will improve considerably with the use of a 25 -100 foot wire antenna. The end of the wire may be connected directly to the banana plug, or a coax-fed antenna may be connected to the GLOBESCAN with a standard PL-259 fitting or Motorola plug.

**CAUTION:** All antenna wiring must be kept at considerable distance from power line wiring to avoid damage or injury and to reduce electrical noise interference.

- INSTALLATION**
- (1) Connect cable (provided) between RCVR jack and external antenna jack on your scanner.
  - (2) Connect your antenna to the ANT jack.
  - (3) Attach a source of 12 VDC (center pin positive) to the power connector.

**PROGRAMMING FREQUENCIES** Consult the frequency conversion table below (or on your GLOBESCAN) and program your scanner in the normal manner. For example, to hear 15 MHz WWV time signals, you would find "15" on the shortwave chart; note that this corresponds to "129" on the VHF aircraft band. You would program 129.000 to hear 15 MHz WWV.

For decimal frequencies, simply include the decimal portion as you program. For example, CHU time signals on 14.670 MHz will be heard at 128.670 on your scanner.

(NOTE: Frequencies not related by your scanner's 5 KHz intervals will still be receivable; simply program the closest frequency your scanner will enter.)

All functions are automatic so you never need to make adjustments.

**OUT OF BAND INTERFERENCE** It is possible that in some strong signal locations GLOBESCAN may detect local mobile or TV/FM broadcast signals. If this occurs, it may be necessary to program the desired frequency slightly high or low to avoid interference on that frequency; for example, 14.670 MHz CHU may be heard on 14.665 (128.665) or 14.675 (128.675) MHz.

In especially severe cases, the use of an external tunable filter like the Grove Enterprises Scanner Filter is recommended.

**IN CASE OF TROUBLE** If your CVR - 2 pilot lamp does not light, make sure proper voltage and polarity (12VDC, center pin positive) are connected to the power receptacle.

Be sure all antenna connects are snug; the flexible shell of the Motorola plugs may be pried out slightly to tightly contact the wall of the jack.

**SIGNAL PROPAGATION** Shortwave signals are susceptible to influences from the earth's electrically-charged ionosphere (upper atmosphere). Generally speaking, signals below about 10 MHz will be best heard at night, while those above are more active during the daytime.

**MODES OF RECEPTION** Your GLOBESCAN was designed for the reception of amplitude modulated (AM) signals only. CW (Morse), single sideband (SSB) and radioteletype (RTTY) signals will not be receivable.

### SPECIFICATIONS

Frequency conversion formulas:  $SW = VHF - 114$   $VHF = SW + 114$

Frequency coverage: 4-22 MHz (4000-22000) KHz)

Oscillator fundamental frequency: 38.000 MHz

Output conversion frequency range: 118 - 136 MHz

Power required: 12 VDC @ 20 ma.

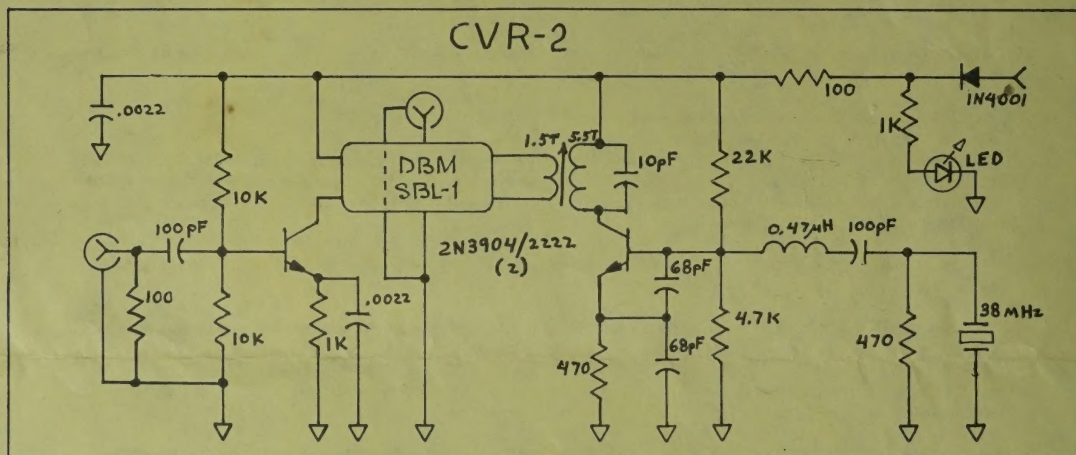
Mode: Amplitude modulation (determined by scanner)

Cabinet dimension: 4" W x 2" H x 3" D

Weight: 10 oz.

## CONVERSION TABLE

SCANNER READING	SHORTWAVE FREQUENCY	BROADCASTING RANGES	TIME SIGNALS	NUMBERS STATIONS
118.000	4.000	4.740 - 5.110		4.044 4.670
119.000	5.000	5.930 - 6.200	5.000 WWV	5.135 5.812
120.000	6.000			
121.000	7.000	7.020 - 7.400	7.335 CHU	7.404 7.445
122.000	8.000			8.418
123.000	9.000	9.020 - 9.930		9.074 9.435
124.000	10.000		10.000 WWV	
125.000	11.000	11.290-12.100		11.532
126.000	12.000			
127.000	13.000			
128.000	14.000		14.670 CHU	
129.000	15.000	15.020-15.710	15.000 WWV	
130.000	16.000			
131.000	17.000	17.555-17.940		
132.000	18.000			
133.000	19.000			
134.000	20.000		20.000 WWV	
135.000	21.000	21.450-21.840		
136.000	22.000			



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